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* Not all models featured are available in all countries. For accessories and other products information, please visit www.everfocus.com.tw

* All photographs in this datasheet were taken for the purpose of explanation; actual images may differ.

EMM20110104

2011

DIGITAL VIDEO RECORDER

ENDEAVOR HD+SD DVR

-EDR HD – 2H14
-EDR HD – 4H4



HD+SD CCTV Hybrid Real Time
Megapixel and Standard Video over Coax



ENDEAVOR HD+SD DVR (EDR HD - 2H14 / EDR HD - 4H4)

HD+SD CCTV Hybrid Real Time Megapixel and Standard Video over Coax

Begin your migration to the High Definition revolution in CCTV technology without changing your installation methods. **For definitive identification in critical areas, capture scenes with stunning HD clarity;** for traditional applications connect standard definition analog CCTV cameras. Carry uncompressed full motion MEGAPIXEL DIGITAL and analog NTSC video back to their respective inputs on the ENDEAVOR HD+SD DVR over standard coaxial cable*! Attach familiar BNC connectors to both HD-CCTV and analog cameras and to the ENDEAVOR HD+SD DVR, then display live and recorded images in astounding detail on the HDMI main monitor screen. HD-CCTV with up to 6 times the resolution of the analog cameras delivers the ability to zoom with clarity. HD images are so detailed, each sends a 1.5Gb/s uncompressed digital video signal over the coax; the Endeavor HD – 2H14 DVR can process that total of 3Gb/s from 2 HD-CCTV cameras, as well as the video from 14 analog cameras, for live viewing and H.264 recording at HD resolutions of 1080p (~2 megapixel @ 15 fps/camera) or 720p (~1 megapixel @ real time 30fps/camera), plus real time 30FPS at D1 recording capability on all 14 analog cameras. Dedicated mega-bandwidth coax signal paths from each HD camera to this HD Hybrid DVR eliminate the need for compression, addressing, and complex network design.

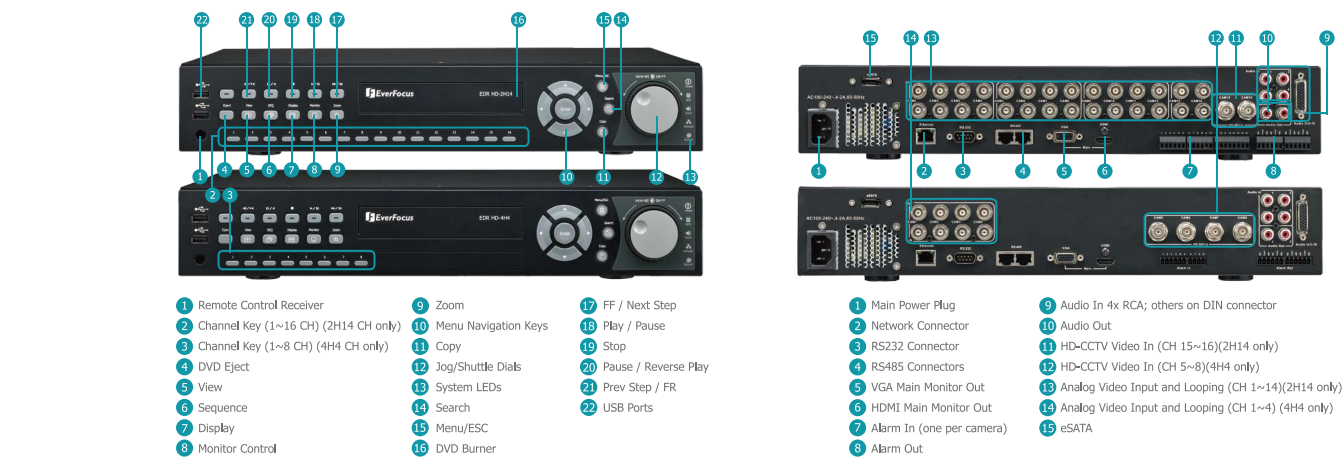
The ENDEAVOR HD+SD DVR is a powerful, full featured, embedded DVR with all the capabilities, familiar front panel controls, user friendly mouse driven Graphical User Interface, plug-and play ease of installation and setup and proven, reliable Linux based operating system that you expect from a state of the art EverFocus DVR. More than that, it is designed and built in our factory, backed by our Support Team, and carries our standard three year DVR warranty (including the hard drives). Start adding some High Definition Security Surveillance to your systems at your own pace, with a name you know and trust: the **ENDEAVOR HD+SD DVR** from Everfocus Electronics puts the future in your hands – TODAY!

*Up to 500’ nominal for digital signals on RG59; more with lower loss cable and/or optional repeaters.

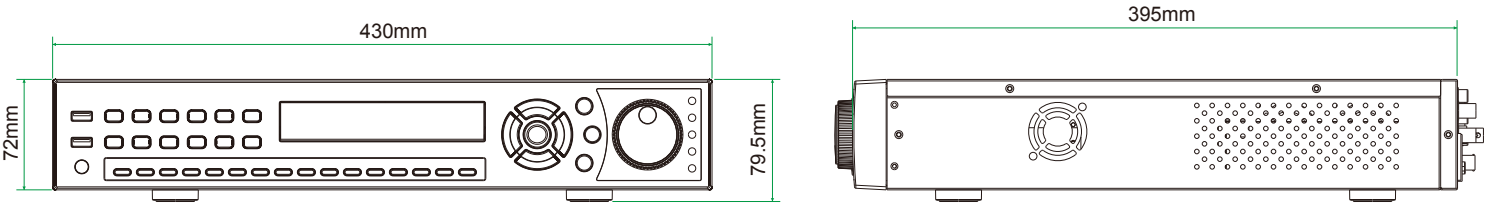
Features

- Both HD-CCTV Megapixel Video Inputs and Analog Video Inputs
- Choose 720p or 1080p HD resolution recording for HD-CCTV Video Inputs up to 30 FPS/camera
- H.264 Compression format to minimize optimize disk space consumption
- Dual streaming to optimize remote viewing bandwidth utilization
- Real time recording rate and playback rate – up to 30fps@D1 on analog and 30fps@HD on HD-CCTV
- Recording resolution and rate can be set independently for each camera, and changed via user defined schedule
- Multiple Main Monitors : HDMI 1080p / VGA (1920x1080) output for stunning image clarity
- Pentaplex Operation (Simultaneous live, recording, playback, archiving and remote viewing)
- User friendly GUI with graphical icons and visual indicators
- Free EverFocus DDNS Service static IP address is not required for reliable remote access
- Supports eSATA external HDD array (EDA450)
- Supports remote/mobile monitoring via PC browsers, SmartPhones and iPhone/Android apps
- Multiple Control Inputs: mouse/front panel/ IR remote control/EKB500 keyboard
- Express Setup: A unique menu option for quick & easy installation and setup
- Express Playback: Simply point, click and drag the playback bar to view desired recordings
- Express Archive: Archive video instantly (to USB) while playing back
- Express Search: Use the intuitive playback bar with simple drag & drop operations
- Smart Search: Review recorded video to identify motion in area(s) of interest
- Snapshot search: choose an interval and direction, view a series of snapshots to quickly isolate incidents
- Remote configuration support from built-in web interface
- Gigabit Ethernet interface for remote network viewing and control
- Audio recording capabilities
- Up to 4 internal HDDs
- Built-in DVD burner
- 2 USB 2.0 ports for video archive and mouse usage
- Multi-language support
- Watermark capabilities to identify intentional modifications of recorded data
- Compatible with FREE EverFocus Central Management Software
- USB Mouse and IR remote control included
- 19” Rack mountable – rack ears included

Major Operating Controls



Dimensions



Advantages

Hybrid Real-time High & Standard Definition Resolution Recording over COAX

Deliver and record both High & Standard Definition image quality using traditional coaxial cable*! Retain plug-and-play ease of installation: select leading edge EverFocus HD-CCTV cameras that use the advanced HD-CCTV transfer format to send full HD, megapixel resolution digital video over the same coax* that once carried only standard definition video. The ENDEAVOR HD+SD DVR delivers “hybrid” recording that allows SMPTE292m compliant HD-CCTV cameras and conventional analog cameras to be recorded on the same DVR. This unique platform provides a gradual migration path to High Definition video recording while still supporting the use of existing analog equipment. *Up to 500 feet, longer distances with extenders



H.264 Compression Technology

H.264 compression technology is considered to be approximately 1.5 times more efficient in compression ratio than MPEG4. Another benefit from H.264 compression is the remote viewing of high quality images with lower LAN/WAN bandwidth utilization.



Convenient Monitoring with web-viewer

The ENDEAVOR HD+SD DVR has a built-in web server that enables users to monitor live and playback DVR images without special software, through a web browser from any supported PC.



HDMI and VGA multiplex monitor outputs

Full HD 1920x1080 provides superior picture performance on a massive scale, with two entire megapixels of resolution allocated to monitor display. HDMI and VGA digital outputs render stunning images from any resolution, and enhance motion reproduction to deliver smoother and crisper looking video.

Specifications

ENDEAVOR HD+SD DVR		
Model Name	EDR HD - 2H14	EDR HD - 4H4
HD-CCTV Camera Inputs	2 BNC SMPTE292m compliant	4 BNC SMPTE292m compliant
Analog Camera Inputs	14 BNC	4 BNC
Looping Analog Camera Outputs	14 BNC	4 BNC
Compression Format	H.264	
Dual Streaming	Yes (Configurable)	
HD Recording Rate/Resolution	1080p 720p	60fps NTSC / 50ps PAL 120fps NTSC / 100ps PAL
Analog Recording Rate/Resolution	Choose one resolution for both channels Resolution and rate can be set independently per camera up to the total D1 recording capacity	420fps NTSC / 350ps PAL 120fps NTSC / 100ps PAL
HD Playback Rate/Resolution	1080p 720p	Up to 30fps NTSC / 25fps PAL Up to 60fps NTSC / 50fps PAL Up to 120fps NTSC / 100fps PAL
Analog Playback Rate/Resolution	D1	Up to 300fps NTSC / 250fps PAL Up to 120fps NTSC / 100fps PAL
Mobile View	Live view on PDA or Smart Phones (MobleFocus FREE app for iPhone® and Android™) plus various web browsers	
Pentaplex Operation	Simultaneous Live, Recording, Playback, Archive and Remote Viewing	
Main Monitor Outputs (simultaneous display)	1080p HDMI (socket Type A 19 pin female) and VGA 1920 x 1080 @ 60 Hz (D-Sub socket 15 pin female)	
Audio Inputs	16 Inputs (RCA, line level)	8 Inputs (RCA, line level)
Audio Outputs	2 Outputs (RCA, line level)	
Recording Modes	Manual, Schedule and Event	
Playback Search	Date/Time, Event, Text, Smart, Snapshot	
Alarm Inputs	16	8
Alarm Outputs	4 Alarm Outputs – Form “C” rated at 30VDC, 1A	
Video Pause	Yes	
Video Loss Detection	Yes	
Motion Detection	Yes	
Event Log	Yes	
Watch Dog Timer	Yes	
Internal HDD Support	4 Internal HDD (up to 8Tb max)	
External HDD Support	1 eSATA	
DVD Drive	DVD RW Built In	
User Interface	Color GUI (Graphical User Interface)	
OS	Embedded Linux	
Network/Protocol	Gigabit Ethernet; TCP-IP / DHCP/ PPPoE / DDNS / UDP / SMTP / SSL / HTTP / NTP/ ICMP / ARP	
Control PTZ via OSD	Local and via web interface	
USB	2 Front Panel USB 2.0 port	
Schedule Setting	Support Express and Advanced Schedule Setting	
User Access	3 Levels of User Access Support	
RS-232	9-pin D-Sub socket (male)	
RS-485	1 RS485 (2 RJ45 connector)	
Power Source	100VAC~240VAC	
Power Consumption	110W max. with 4 x HDD	
Dimensions (L x W x H)	395 x 430 x 79.5 mm / 15.6" x 16.9" x 3.2"	
Temperature	0°C~40°C / 32°F~104°F (20~80% humidity)	
Certificates	CE, FCC, UL	
Supported PTZ Protocols	EverFocus, Pelco D, Pelco P, Samsung, Transparent	